[LL 6177] AUGUST 2017 **Sub. Code: 6177**

BOT DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2014-2015 onwards)
SECOND YEAR
PAPER III – BIOMECHANICS, APPLIED ANATOMY AND APPLIED PHYSIOLOGY

Q.P. Code: 786177

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Describe the structure and function of the Knee joint.
2. Define Gait and determinants of Gait.

II. Write notes on: **(8 x 5 = 40)**

1. What are properties of muscle?
2. Describe a normal E.C.G.
3. Describe the mechanics of respiration.
4. Differentiate between agonist and antagonist muscle. Give example of their actions during an activity.
5. Explain the structure of the extensor expansion.
6. Methods of artificial respiration.
7. Tarsometatarsal joint function.
8. Anterior cruciate ligament injury.

III. Short answers on: **(10 x 2 = 20)**

1. Genu recurvatum.
2. Lung compliance.
3. Hypertonocity.
4. Diarthrodial joints.
5. Mechanical advantage in third class lever.
6. Define force.
7. Synergist muscle.
8. Tidal volume.
9. Define conductivity as a property of cardiac muscle.
10. Which is the structure responsible for gas exchange in the lungs?

****